

MV-CL084-91CM-PRO

8192 P Camera Link Line Scan Camera



GEN*i*CAM



Introduction

MV-CL084-91CM-PRO uses Camera Link interface to transmit images, and its max. line rate reaches 100 kHz. It supports multiple lights control function and different image modes, and is applicable to printing, panel, semiconductor, new energy, and other industries.

Key Feature

- Supports off/once/continuous exposure modes.
- Supports multiple lights control function and TDI function to select different lamp modes and image modes.
- Supports exposure time and gain adjustment, PRNUC correction, LUT, Gamma correction, etc.
- Supports functions such as signal-to-noise ratio enhancement.
- Compatible with Camera Link Protocol and GenICam Standard.

Available Model

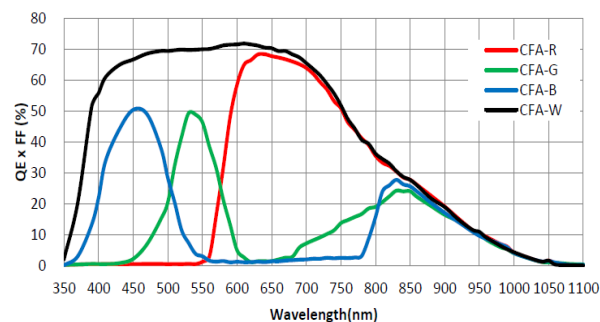
MV-CL084-91CM-PRO

Applicable Industry

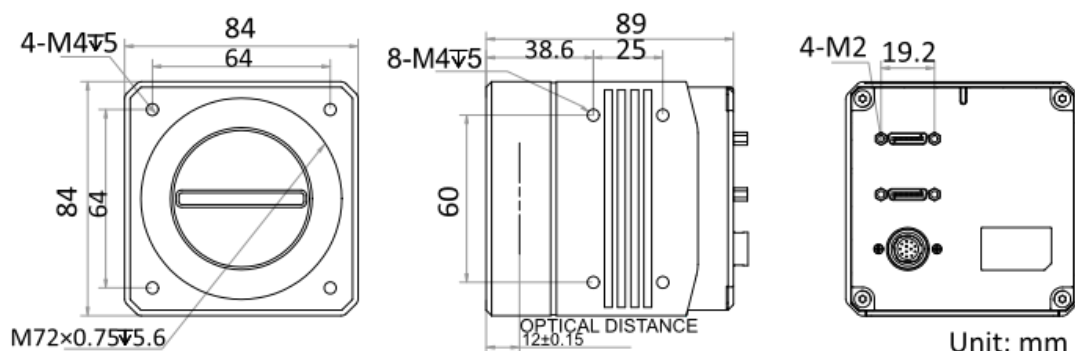
Printing, panel, semiconductor, new energy, PCB, etc.

Sensor Quantum

Efficiency



Dimension



Specification

Model	MV-CL084-91CM-PRO
Camera	
Sensor type	CMOS
Pixel size	5 μ m
Resolution	8192 $\times$ 16
Image mode	Supports 1-line, 2-TDI, and 4-TDI Supports multiple lights control: 2-lamp/3-lamp/4-lamp
Max. line rate	Multiple lights control disabled or 1-lamp: 20 kHz (Base), 40 kHz (Medium), 75 kHz (Full), 75 kHz (80-bit) 2-lamp: 10 kHz (Base), 20 kHz (Medium), 40 kHz (Full), 50 kHz (80-bit) 3-lamp: 6 kHz (Base), 13 kHz (Medium), 27 kHz (Full), 33 kHz (80-bit) 4-lamp: 5 kHz (Base), 10 kHz (Medium), 20 kHz (Full), 25 kHz (80-bit)
Configuration mode	Base, Medium, Full, 80-bit
Tap geometry	1 $\times$ 2, 1 $\times$ 4, 1 $\times$ 8, 1 $\times$ 10
Tap number	2 Taps, 4 Taps, 8 Taps, 10 Taps
Pixel clock	40 MHz, 66 MHz, 80 MHz, 85 MHz
Dynamic range	57.8 dB
SNR	41.3 dB
Gain	1.2 $\times$, 2.7 $\times$, and 4.6 $\times$
Exposure time	3 μ s to 10 ms
Exposure mode	Off/Once/Continuous exposure mode; supports fixed exposure time, trigger-width exposure
Mono/color	Mono
Pixel format	Mono 8/10/12
Binning	Supports 1 $\times$ 1, 1 $\times$ 2, 1 $\times$ 4, 2 $\times$ 1, 2 $\times$ 2, 2 $\times$ 4, 4 $\times$ 1, 4 $\times$ 2, 4 $\times$ 4
Reverse image	Supports horizontal reverse image output
Trigger mode	External trigger, internal trigger
External trigger mode	Line trigger, frame trigger, line + frame trigger
Electrical feature	
Data interface	Camera Link (SDR connector); USB interface for updating firmware
Digital I/O	12-pin P10 connector provides power and I/O: configurable input and output $\times$ 4 (Line 0/1/3/4), and support single-end/differential. Camera Link provides I/O (CC1/CC2/CC3/CC4).
Power supply	24 VDC
Power consumption	Typ. 22.9 W @ 24 VDC
Mechanical	
Lens mount	M72*0.75, flange back length 12 mm, applicable to F-mount via lens adapter
Dimension	84 mm $\times$ 84 mm $\times$ 89 mm (3.3" $\times$ 3.3" $\times$ 3.5")
Weight	Approx. 900 g (2.0 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: -20 $^{\circ}$ C to 60 $^{\circ}$ C (-4 $^{\circ}$ F to 140 $^{\circ}$ F) Storage temperature: -30 $^{\circ}$ C to 80 $^{\circ}$ C (-22 $^{\circ}$ F to 176 $^{\circ}$ F)
Humidity	5% RH to 90% RH (no condensation)

General	
Client software	MVS and frame grabber software meeting with Camera Link Protocol
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11
Compatibility	Camera Link V2.0, GenICam
Certification	CE, RoHS, KC